

**TEE Engineering Company, Inc.**  
 320 Canters Hill Court  
 Lexington, KY 40509  
 (609) 263-5330  
 Fax (609) 263-5345

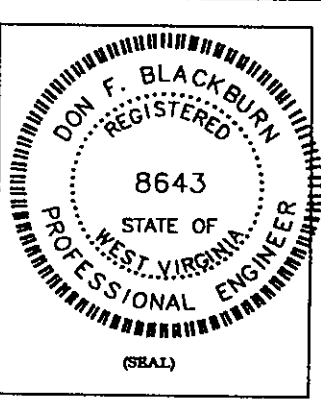
**GeoMet Operating Company, Inc.**  
 Well No. Pond Creek 112-103-089

FILE NO. 1883-08/2003 WELLS  
 DRAWING NO. WELL POND CREEK 90 PLAT  
 SCALE: 1" = 2,000'  
 MIN. DEGREE OF ACCURACY 1 : 2,500  
 PROVEN SOURCE OF ELEVATION  
 GPS STATION TEC-1 (ELEV. 2406.60)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

*Don F. Blackburn*  
 (SIGNATURE)

R.P.E. 8643 R.P.S.



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS

DATE MARCH 20, 2003  
 OPERATOR'S WELL NO. POND CREEK 113-103-090

API WELL NO. 47 - 047 - 01784-C  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS X CBM LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE X DEEP  SHALLOW

LOCATION: ELEVATION 2,194.41' NORTHING 105633.81 EASTING 1781025.46  
 DISTRICT BIG CREEK WATER SHED STRAIGHT FORK OF LITTLE SLATE CREEK  
 QUADRANGLE BRADSHAW COUNTY McDOWELL

SURFACE OWNER PLUM CREEK TIMBERLANDS L.P. ACREAGE 9,907.37  
 CBM ROYALTY OWNER PLUM CREEK TIMBERLANDS L.P. LEASE ACREAGE 9,907.37  
 LEASE NO. RECORDING IN PROGRESS

PROPOSED WORK: DRILL X CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR  
 STIMULATE X PLUG OFF OLD FORMATION  PERFORATE NEW  
 FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION NEW RIVER AND POCAHONTAS COALS ESTIMATED DEPTH 2,075'  
 WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT KERRY HILL  
 ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 3206 ADDRESS 330 HARPER PARK DRIVE SUITE A  
 BIRMINGHAM, ALABAMA 35244 BECKLEY, WV 25801

(Bradshaw 272)

MAR 16 2003

Mc Dow 1784 C

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

*fu 93*

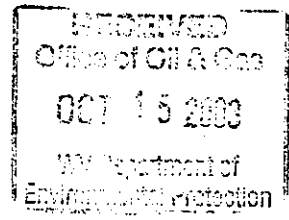
Well Operator's Report of Well Work

FARM NAME: Plum Creek Timberlands OPERATOR WELL NO.: 112-103-089

LOCATION:

Elevation: 2,194.59' Quadrangle: Bradshaw

District: Big Creek County: McDowell  
Latitude: 764' Feet South of 37 Deg. 17 Min. 30 Sec.  
Longitude: 1,463' Feet West of 81 Deg. 45 Min. 00 Sec.



Company: <u>GeoMet Operating Company</u>	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
Address: <u>5336 Stadium Trace Parkway, Suite 206 Birmingham, Alabama 35244</u>	<u>13-3/8"</u>	<u>37'</u>	<u>37'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>330'</u>	<u>330'</u>	<u>75/Pumped 180</u>
Date Permit Issued: <u>May 13, 2003</u>				
Date Well Work Commenced: <u>July 21, 2003</u>	<u>5-1/2"</u>	<u>1826'</u>	<u>1826'</u>	<u>317/Pumped 358</u>
Date Well Work Completed: <u>August 5, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>1860'</u>				
Fresh Water Depth (feet): <u>Unknown</u>				
Salt Water Depth (feet): <u>Unknown</u>				
Is coal being mined in area (N/Y)? <u>No</u>				

Coal Depths (feet): 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 343, 345, 346, 347, 429, 511, 563, 567, 601, 635, 710, 711, 994, 1043, 1045, 1046, 1055, 1072, 1090, 1111, 1143, 1184, 1200, 1299, 1330, 1365, 1405, 1407, 1511, 1512, 1513, 1577, 1700, 1857.

OPEN FLOW DATA

Producing formation All Zones Commingled Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial Open Flow N/A MCF/d Oil: Initial Open Flow \_\_\_\_\_ Bbl/d  
Final Open Flow N/A MCF/d Final Open Flow \_\_\_\_\_ Bbl/d  
Time of Open Flow between initial and final tests N/A Hours  
Static Rock Pressure 13 psig (surface pressure) after 96 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

SIGNED: \_\_\_\_\_  
BY: *Dundua Smith*  
DATE: \_\_\_\_\_

*Mc Dow 1784*

NOV 14 2003

**GeoMet Operating Company, Inc.  
Perforation and Frac Volume Specification**

Well Name Pond Creek 089

PBTD

1826

**Zone and Perforation Table**

Frac			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 1 Interval	1699	1702				
N2 Scf	273,000		1650'		15,000	12,000
Acid	500	15%				
Gel Volume	7,800					
ISIP						
ATP	3,344					
AIR	20	BPM				
Stage 2 Interval	1,510	1513				
N2 Scf			1450'			
Acid						
Gel Volume						
ISIP						
ATP						
AIR		BPM				
Stage 3 Interval	1,364	1367				
N2 Scf	281,000		36 Balls on Plug @ 1350'			
Acid	400					
Gel Volume	10,600					
ISIP	1,230					
ATP	2,560					
AIR	29	BPM				
Stage 4 Interval	1,298	1301				
N2 Scf	288,000		1328' -1331  Ball Out 1250'			
Acid	600					
Gel Volume	9,800					
ISIP	1,321					
ATP	2,400					
AIR	27	BPM				
Stage 5 Interval	1,142	1145				
N2 Scf	212,000		60 Balls On Plug @ 1120'			
Acid	200	15%				
Gel Volume	7,000					
ISIP	1,121					
ATP	2,290					
AIR	29	BPM				

Well Name Pond Creek 089

PBTD

1826

**Zone and Perforation Table**

Stage Interval	1,070	1,072	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval						
N2 Scf			1089' -1091'	Ball Out Could Not Break No Plug	25,000	
Acid						
Gel Volume						Frac W Stage 7
ISIP						
ATP						
AIR						
		BPM				
Stage 7 Interval	1,042	1,046			40,000	62,000
N2 Scf	450,000		No Plug			
Acid	500					
Gel Volume	14,100					
ISIP	943					
ATP	2,210					
AIR	35	BPM				
Stage 8 Interval						
N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR						
		BPM				
Stage 9 Interval						
N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR						
		BPM				
Stage 10 Interval						
N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR						

McDow 1784

**DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC**

**COMPANY: GEOMET OPERATING CO      HOLE NO.: PMC-089**

**LOCATION: BUG HURLEY HOLLOW      DRILL: RIG # 94**

**DATE STARTED: 07-21-2003      DATE COMPLETED: 07-23-2003**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	36.6	36.6	OVERBURDEN	36.6' W/ 13 3/8" CASING
36.6	61	24.4	SANDSTONE	
61	92	31	SANDSTONE / SANDY SHALE	
92	123	31	SANDSTONE	
123	154	31	COAL STR / SANDY SH / COAL STR / SAND	
154	185	31	SAND / SANDY SHALE STR	
185	215	30	SANDY SHALE / SAND STR / SANDY SHALE	
215	245	30	SANDY SHALE	
245	275	30	SANDY SHALE / COAL STR / SANDSTONE	
275	305	30	SANDSTONE	
305	335	30	SANDSTONE / SANDY SHALE STR	
				330' W/ 8 5/8" CASING
335	345	10	SANDY SHALE	
345	360	15	SANDSTONE / SANDY SHALE	
360	390	30	SANDY SHALE / COAL STR / SANDSTONE	
390	420	30	SANDSTONE / COAL STR / SANDY SHALE	
420	450	30	COAL STR / SANDY SHALE / SANDSTONE /	
				COAL STR
450	480	30	COAL STR / SANDY SHALE / SANDSTONE	
480	510	30	SANDSTONE / SANDY SHALE / COAL STR	
510	540	30	SANDY SHALE / COAL STR / SANDSTONE	
540	570	30	SANDSTONE / SANDY SHALE	
570	600	30		
600	630	30	SANDY SHALE / SANDSTONE	
630	660	30	COAL STR / SANDY SHALE / SANDSTONE	
660	690	30	SANDSTONE / SANDY SHALE	
690	720	30	SANDY SHALE / SANDSTONE	
720	750	30	SANDSTONE / SANDY SHALE	
750	780	30	SANDY SHALE / COAL STR / SANDSTONE	
780	810	30	SANDSTONE / SANDY SHALE	
810	840	30	SANDY SHALE / SANDSTONE	
840	870	30	SANDSTONE / SANDY SHALE	
870	900	30	SANDY SHALE / SANDSTONE	
900	930	30	SANDSTONE / SANDY SHALE	
930	960	30	SANDY SHALE / SANDSTONE	
960	990	30	SANDSTONE / SANDY SHALE /	
				COAL STR @ 975' / SANDSTONE
990	1020	30	SANDSTONE / SANDY SHALE	
1020	1050	30	SANDSTONE / SANDY SHALE STR	
1050	1080	30	SANDY SHALE / COAL STR @ 1065'	
1080	1110	30	SANDY SHALE / SANDSTONE STR	
1110	1130	20	SANDY SHALE	

PAGE 2  
 GEOMET OPERATING COMPANY  
 PMC-089 South

FROM	TO	FT.	DESCRIPTION
1130	1133	3	COAL
1133	1140	7	SANDY SHALE
1140	1170	30	SANDSTONE / SANDY SHALE / COAL STR
1170	1200	30	COAL 2 / SANDY SHALE / SANDSTONE
1200	1230	30	SANDSTONE
1230	1260	30	SANDSTONE STR / SANDY SHALE
1260	1286	26	SANDY SHALE
1286	1290	4	COAL
1290	1320	30	SANDSTONE / SANDY SHALE / COAL STR
1320	1350	30	SANDSTONE / SANDY SHALE STR
1350	1380	30	SANDY SHALE / SAND STR
1380	1410	30	SANDSTONE / SANDY SHALE STR / SANDSTONE
1410	1440	30	SANDSTONE
1440	1470	30	SANDSTONE STR / SANDY SHALE
1470	1500	30	SANDY SHALE / SAND / COAL STR
1500	1560	60	SANDSTONE / SANDY SHALE
1560	1590	30	SANDY SHALE / COAL / SANDSTONE
1590	1620	30	SANDSTONE / SANDY SHALE / SANDSTONE
1620	1650	30	SANDSTONE / SANDY SHALE
1650	1680	30	SANDY SHALE / SANDSTONE
1680	1710	30	SANDSTONE
1710	1740	30	SANDSTONE / SANDY SHALE
1740	1770	30	SANDY SHALE / SANDSTONE
1770	1800	30	SANDSTONE / SANDY SHALE / SANDSTONE
1800	1830	30	SANDSTONE / SANDY SHALE STR / SANDSTONE / RED SHALE
1830	1860	30	SANDY SHALE / RED SHALE / SANDSTONE
1860	1875	15	SANDSTONE TD 7 7/8" DRILLING

1875.00 FT. TOTAL DEPTH  
 15.00 FT. OF 13 3/8" CASING  
 330.00 FT. OF 8 5/8" CASING

NOV 14 2003

M. Dow 1784